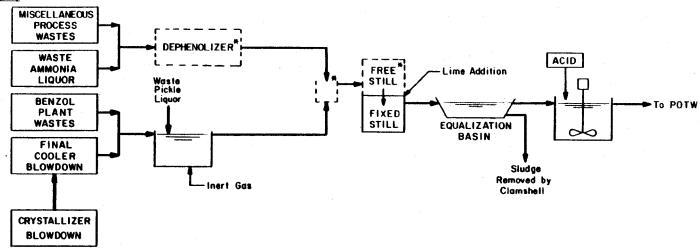
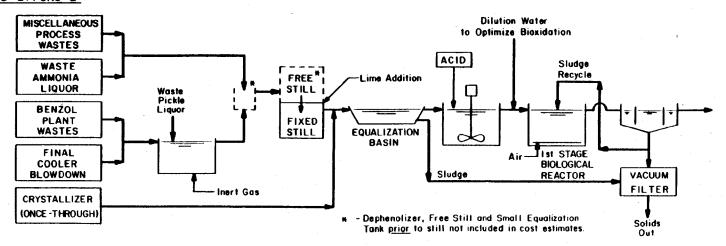
# Appendix A SCHEMATIC DIAGRAMS OF TECHNOLOGIES CONSIDERED BY EPA

#### BYPRODUCT COKEMAKING TREATMENT MODELS SUMMARY (PAGE I OF 2)

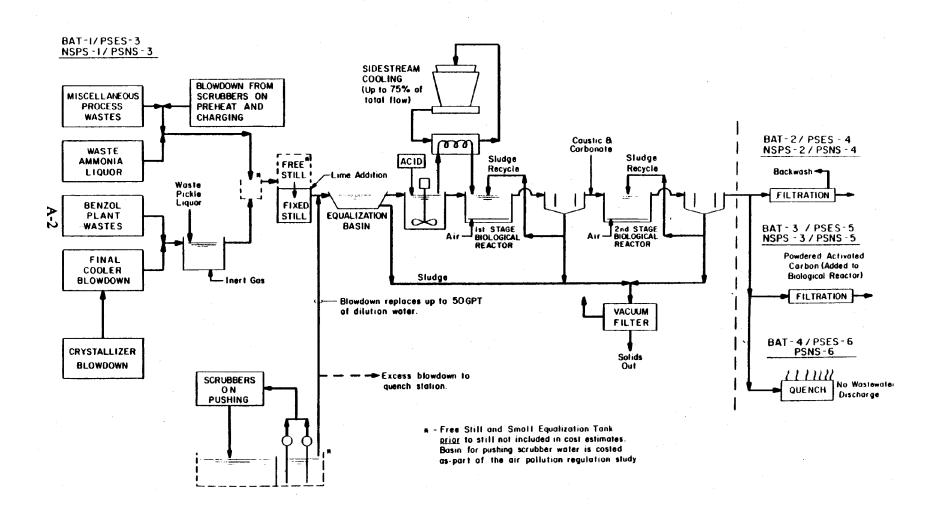
#### PSES-I/ PSNS-I



#### BAT/BCT/PSES-2/PSNS-2



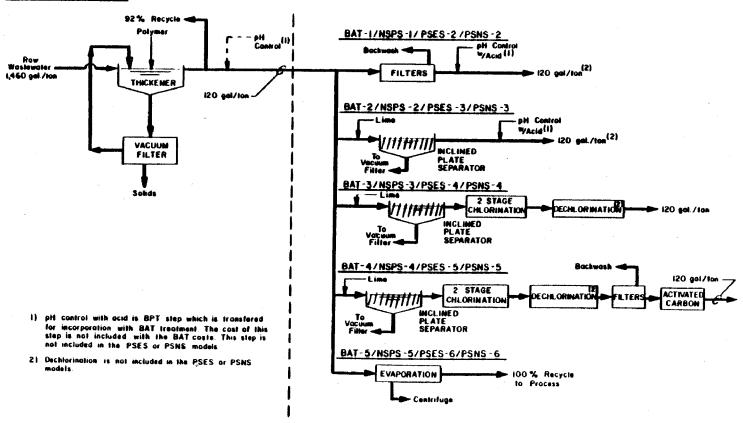
## BYPRODUCT COKEMAKING TREATMENT MODELS SUMMARY (PAGE 2 OF 2)



### SINTERING TREATMENT MODELS SUMMARY

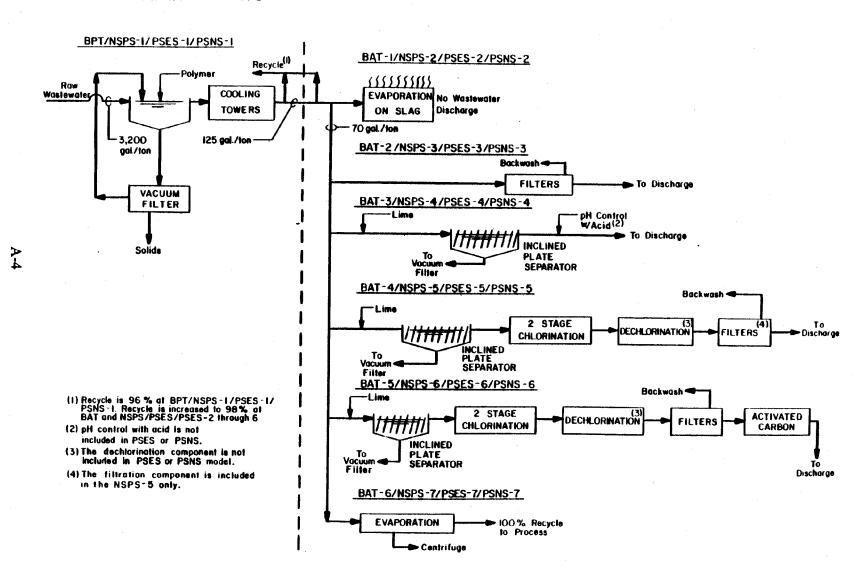
BPT, BAT, PSES MODEL PLANT - 4,000 TPD NSPS, PSNS MODEL PLANT - 7,000 TPD

#### BPT / PSES - I / PSNS -I



### IRONMAKING TREATMENT MODELS SUMMARY

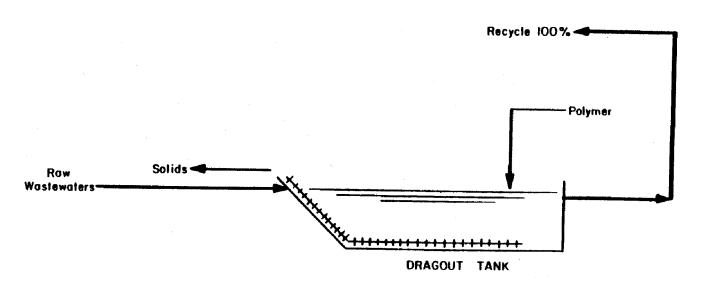
#### MODEL PLANT - 6000 TPD



## BASIC OXYGEN FURNACE-SEMI-WET TREATMENT MODELS SUMMARY

MODEL PLANT - 5300 TPD

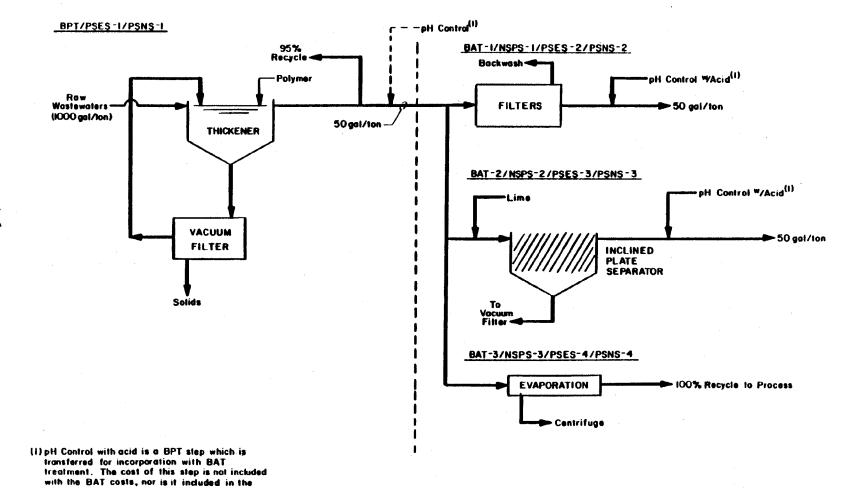
### BPT/BAT/BCT/PSES



PSES/PSNS models.

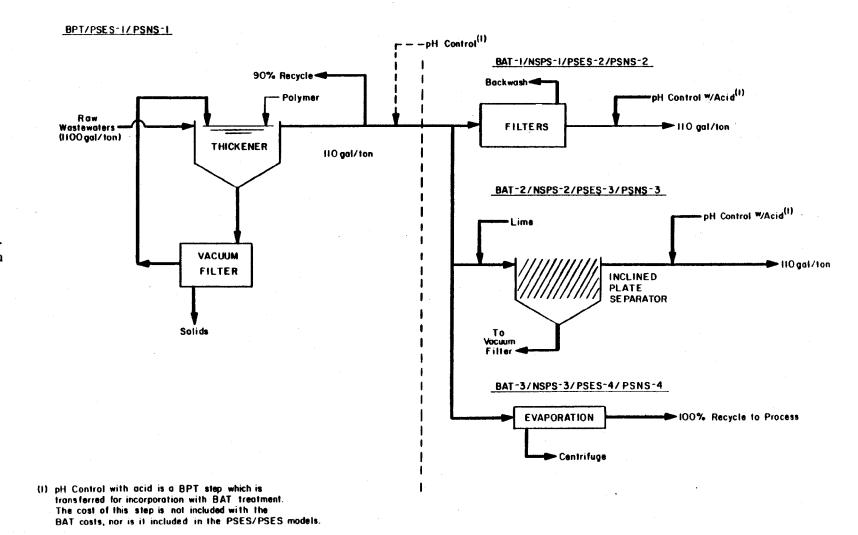
### BASIC OXYGEN FURNACE-WET-SUPPRESSED COMBUSTION TREATMENT MODELS SUMMARY

MODEL PLANT-7400 TPD



### BASIC OXYGEN FURNACE-WET-OPEN COMBUSTION TREATMENT MODELS SUMMARY

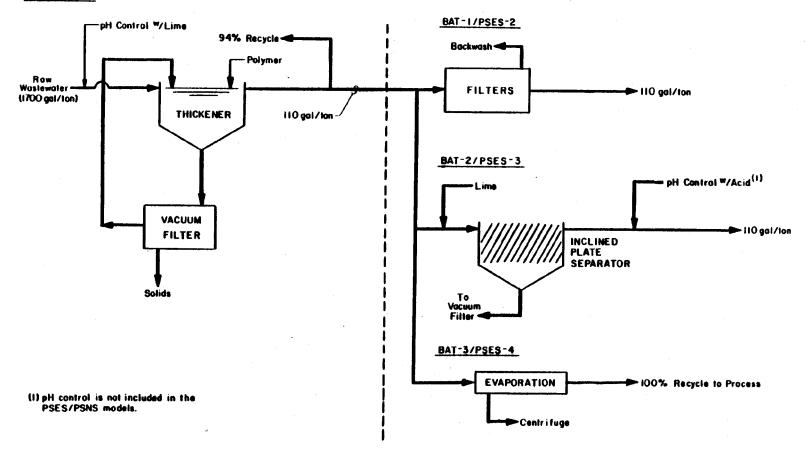
#### MODEL PLANT-9100 TPD



### OPEN HEARTH FURNACE-WET TREATMENT MODELS SUMMARY

### MODEL PLANT-6700 TPD

#### BPT/PSES-I

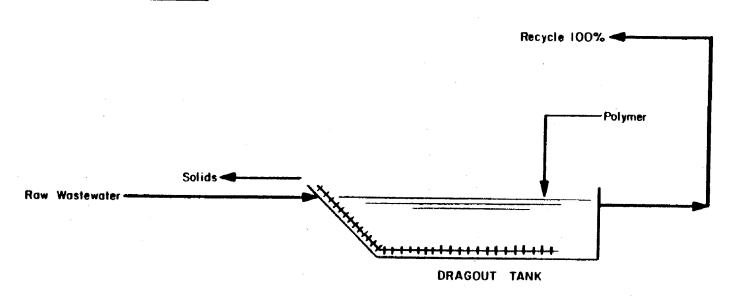


### A-9

## ELECTRIC ARC FURNACE-SEMI-WET TREATMENT MODELS SUMMARY

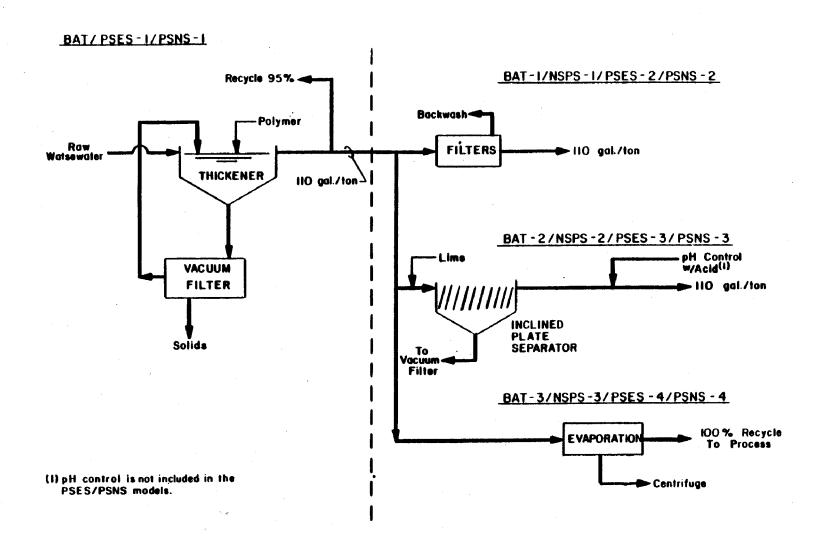
MODEL SIZE-3100 TPD

### BPT/BAT/BCT/PSES



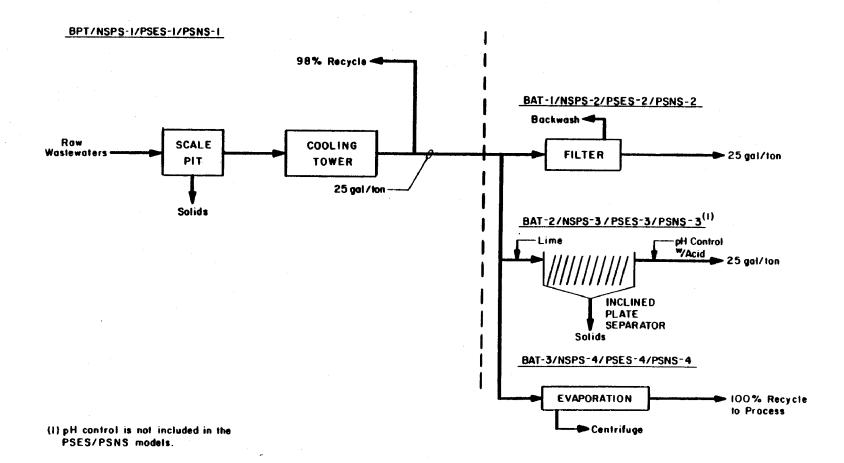
### ELECTRIC ARC FURNACE-WET TREATMENT MODELS SUMMARY

### MODEL PLANT-1800 TPD



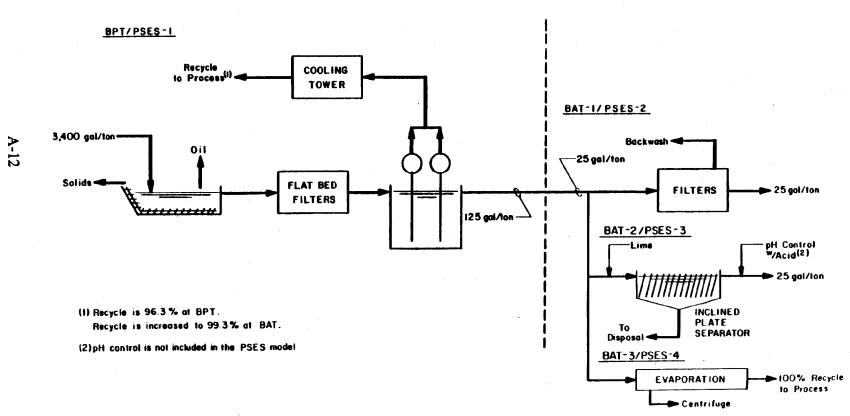
### VACUUM DEGASSING TREATMENT MODELS SUMMARY

### MODEL PLANT-1200 TPD



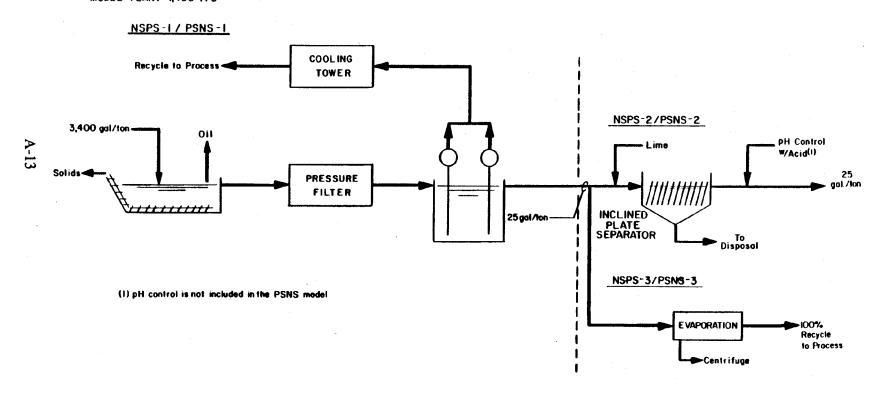
# CONTINUOUS CASTING BPT/BAT/PSES TREATMENT MODELS SUMMARY

MODEL PLANT-1,400 TPD

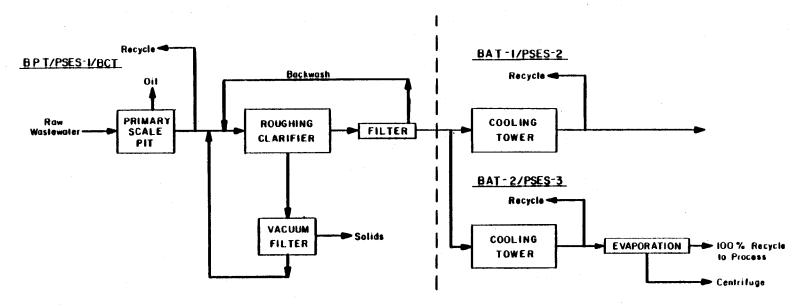


# CONTINUOUS CASTING NSPS/PSNS TREATMENT MODELS SUMMARY

MODEL PLANT - 1,400 TPD



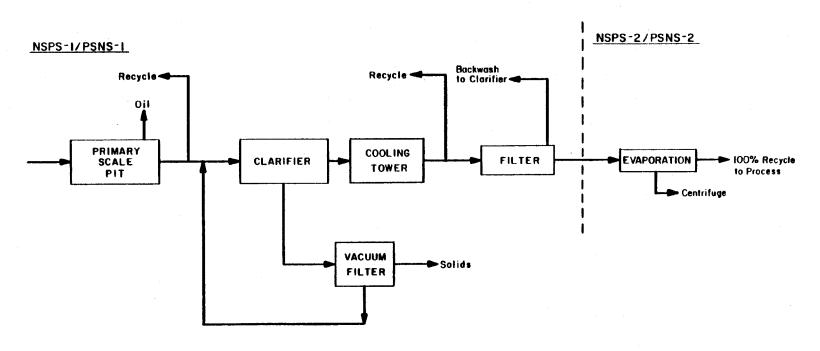
# HOT FORMING BPT/BCT/BAT/PSES TREATMENT MODELS SUMMARY



### HOT FORMING FLOW RATES

SUBDIVISION		APPLIED FLOW (GPT)	PSP RECYCLE (%)	BPT DISCHARGE FLOW (GPT)	BAT RECYCLE (%) <sup>(1)</sup>	BAT DISCHARGE FLOW (GPT)
PRIMARY	wo/Scarfer	2300	61	897	35	90
	W/Scarter	3400	61	1326	. 35	140
SECTION	Carbon	5100	58	2142	38	200
	Specially	3200	58	1344	38	130
FLAT	Hot Strip	6400	60	2560	36	260
	Carbon Plate	3400	60	1360	36	140
	Specially Plate	1500	60	600	36	60
PIPE & TUBE		5520	77	1270	19	220

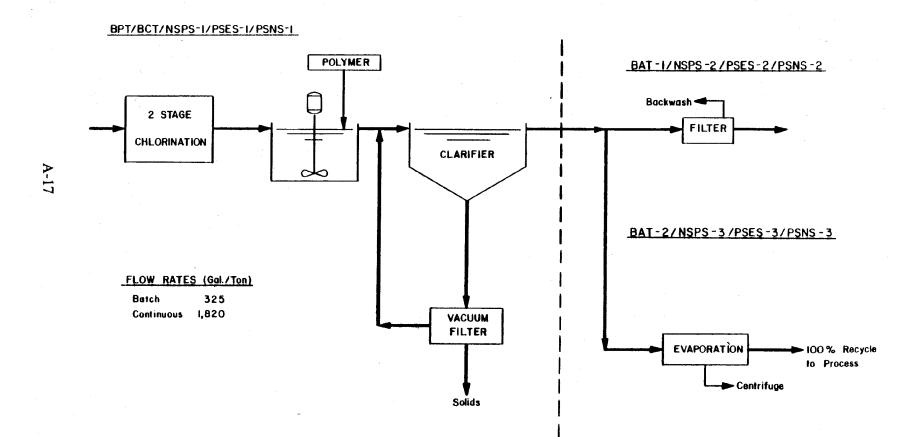
# HOT FORMING NSPS/PSNS TREATMENT MODELS SUMMARY



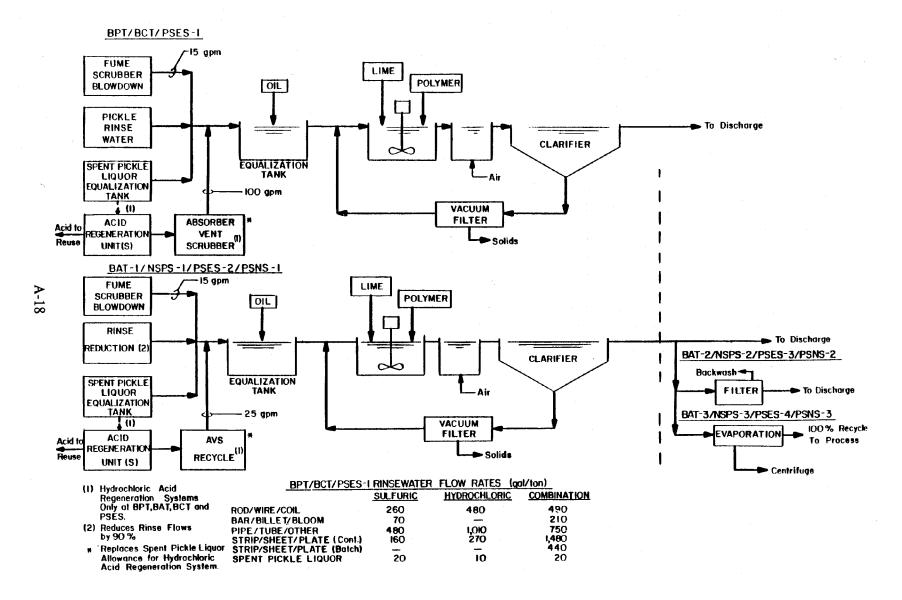
		NS NS		
SUBDIVISION		APPLIED Flow(GPT)	COMBINED RECYCLE RATE(%)	DISCHARGE FLOW (GPT)
PRIMARY	wo/scarfer	2300	96	90
	w/scarfer	3400	96	140
SECTION	Carbon	5100	96	200
	Specially	3200	96	130
FLAT	Hot Strip	6400	96	260
	Carbon Plate	3400	96	140
	Specialty Plate	1500	96	60
PIPE & TUBE		5520	96	220

# SALT BATH DESCALING OXIDIZING TREATMENT MODELS SUMMARY

#### BPT/BCT/NSPS-I/PSES-I/PSNS-I SULFER POLYMER DIOXIDE BAT-I/NSPS-2/PSES-2/PSNS-2 LIME ACID OIL Backwash -FILTER CLARIFIER FLOW RATES (Gal./Ton) BAT-2/NSPS-3/PSES-3/PSNS-3 SUBDIVISION BATCH > 100% Recycle jo Process EVAPORATION Sheet, Plate Rod, Wire Pipe, & Tube 700 420 1,700 Centrifuge VACUUM CONTINUOUS 330 FILTER Solids

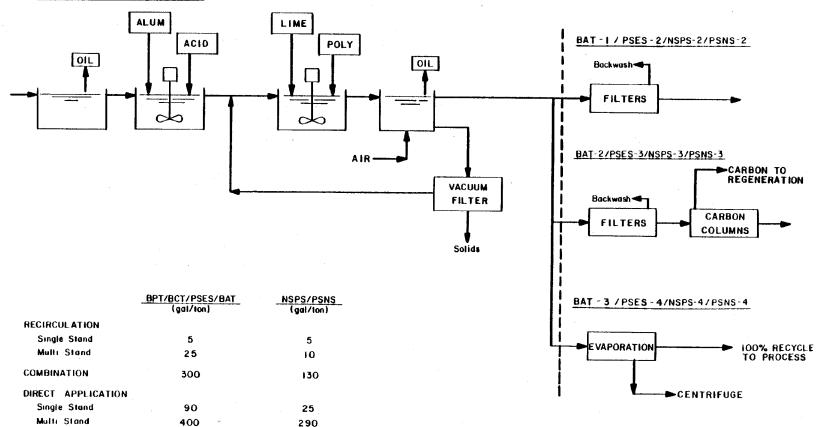


### ACID PICKLING TREATMENT MODELS SUMMARY



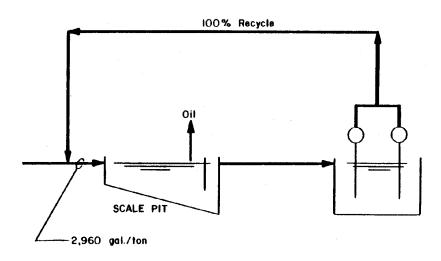
### COLD FORMING: COLD ROLLING TREATMENT MODELS SUMMARY

#### BPT/BCT/PSES-I/NSPS-I/PSNS-I



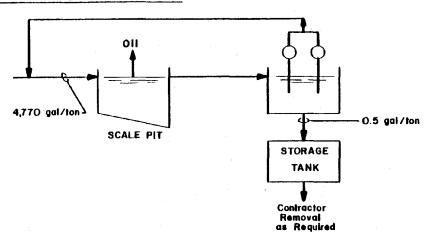
# COLD FORMING PIPE AND TUBE (WATER) TREATMENT MODEL SUMMARY

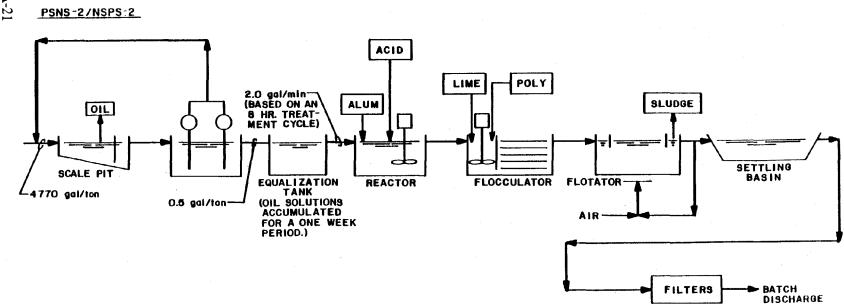
### BPT/BAT/BCT/PSES/PSNS/NSPS



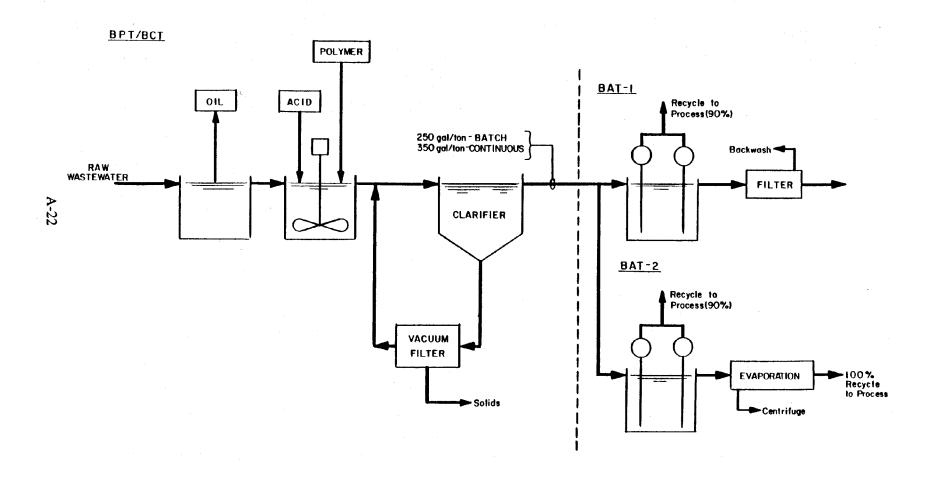
## COLD FORMING PIPE AND TUBE (SOLUBLE OIL) TREATMENT MODELS SUMMARY

#### BPT/BAT/BCT/PSES/PSNS-I/NSPS-I



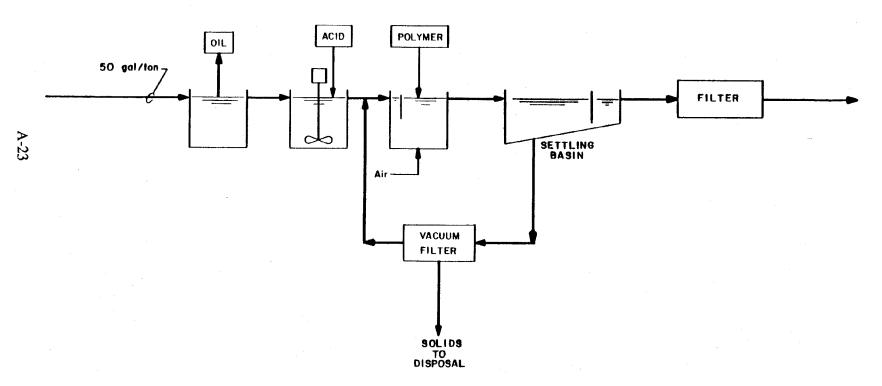


### ALKALINE CLEANING BPT/BCT/BAT TREATMENT MODELS SUMMARY

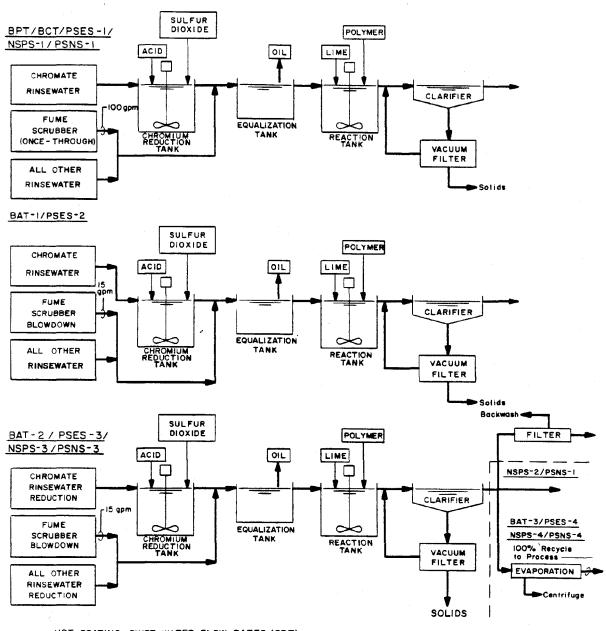


# ALKALINE CLEANING NSPS TREATMENT MODELS SUMMARY

### NSPS.



### HOT COATING / GALVANIZING TREATMENT MODELS SUMMARY



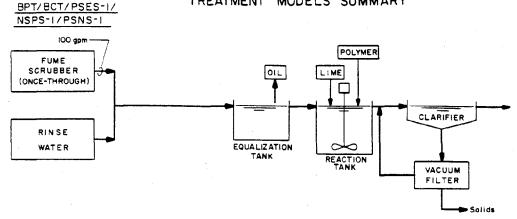
HOT COATING RINSE WATER FLOW RATES (GPT)

PRODUCT	BPT/BCT/PSES-18 2 BAT-i/NSPS-1/PSNS-1(1)	ALL OTHER MODELS (2)	
Strip/Sheet & Misc. Products	600	150	
Wire Products & Fasteners	2400	600	

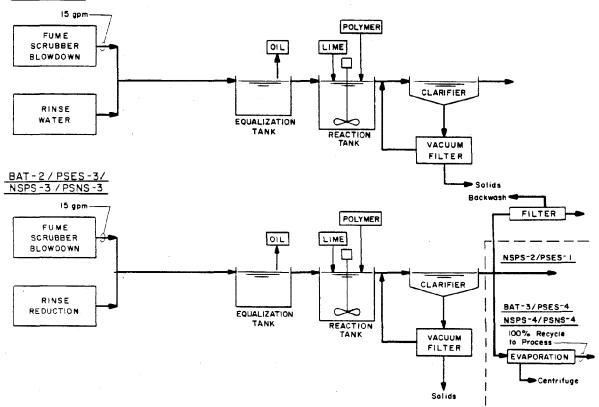
<sup>(1)</sup> Fume scrubber flow at BPT/BCT/PSES-I/NSPS-I/PSNS-I: 100 gpm/scrubber

<sup>(2)</sup> Fume scrubber flow at all other models: 15 gpm/scrubber

### HOT COATING/TERNE & OTHER METALS TREATMENT MODELS SUMMARY



#### BAT-1/PSES-2



HOT COATING RINSE WATER FLOW RATES (GPT)

PRODUCT	BAT/BCT/PSES-I 82 / (I) BAT-I/NSPS-I/PSNS-I	ALL OTHER MODELS(2)	
Strip/Sheet & Misc. Products	600	150	
Wire Products & Fasteners	. 2400	600	

- (1) Fume scrubber flow at BPT/BCT/PSES-1/NSPS-1/PSNS-1: 15 gpm/scrubber
- (2) Fume scrubber at all other models: 15 gpm/scrubber